

Industrial Communication

Providing Interconnected Solutions for
Enabling an Intelligent Planet

- ／ Industrial Ethernet Switches
- ／ Wireless APs / Bridges / Clients
- ／ Media Converters
- ／ Serial Device Servers
- ／ Serial Communication Cards



ADVANTECH **iCom**

www.advantech.com/eaautomation/icom/

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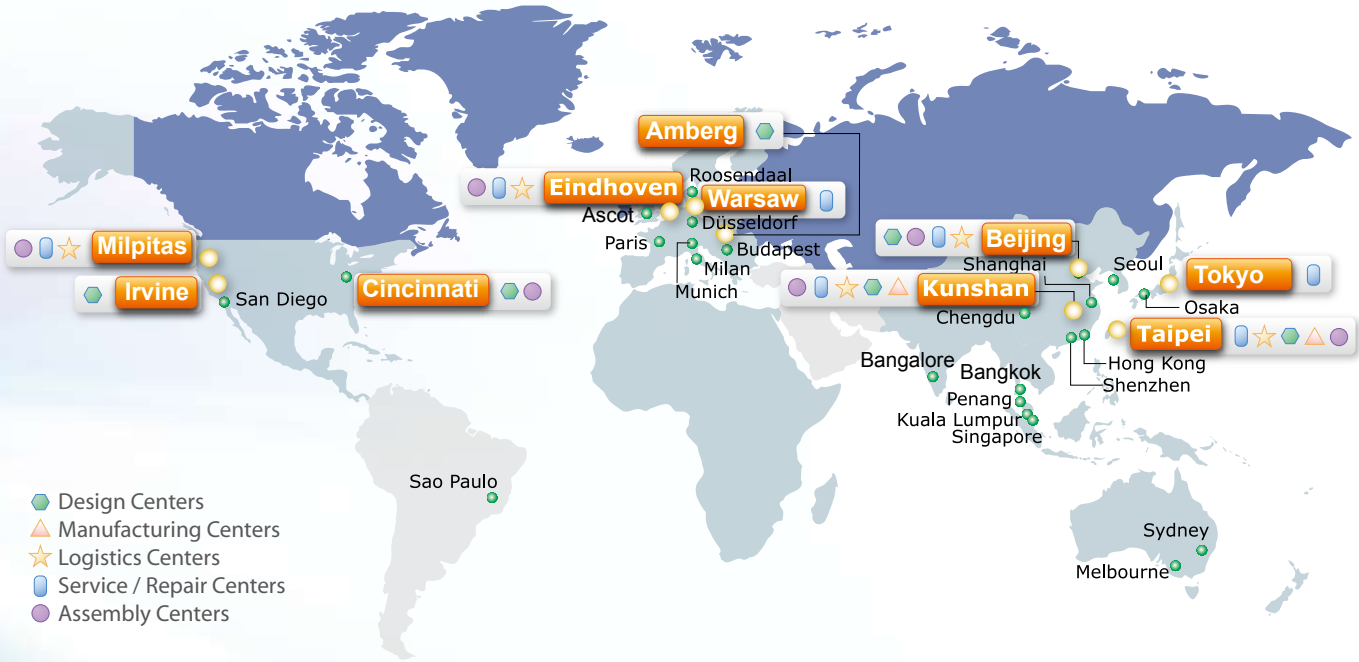
About Advantech



Founded in 1983, Advantech is a leader in providing trusted innovative embedded & automation products and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, and global logistics support; all backed by industry-leading front and back office e-business solutions. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Advantech has always been an innovator in the development and manufacturing of high-quality, high-performance computing platforms, and our mission is to empower these innovations by offering trustworthy ePlatform products and services. With Advantech, there is no limit to the applications and innovations our products make possible.

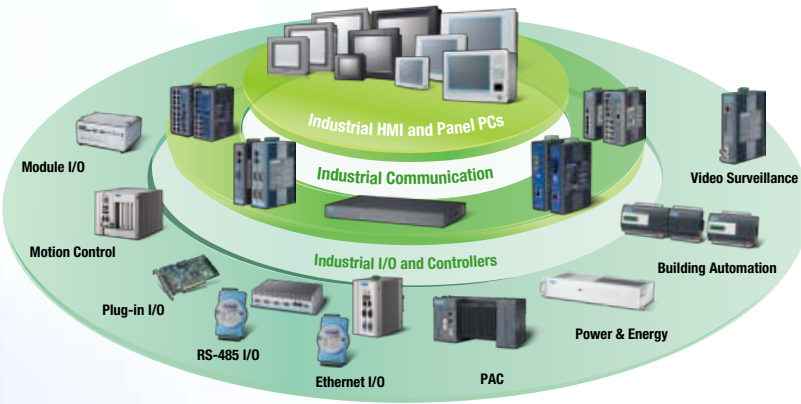
Global Service Support

Advantech has over 15 regional toll-free hotlines, and offices throughout 39 cities in 18 countries, with more than 4,000 employees to provide efficient, professional services for customer care, product selection, technical support, and order handling. Through our call centers and online stores, customers worldwide can now enjoy the convenience of Advantech's multi-service channels to reduce business turnaround time. Together with the four customer service centers in Taiwan, China, the Netherlands, and the United States, our global service network offers an extensive spectrum of services that includes warehousing, logistics, peripheral certification, sourcing & purchasing, and RMA & support services.



Automation & Solutions Enabling an Intelligent Planet

In our efforts to enable an Intelligent Planet, Advantech Automation & Solutions business provides a complete range of Automation Devices and Computing Platforms to fulfill different industrial and automation needs. We not only offer core system components for thousands of applications but also strive to provide total solutions for several key vertical sectors.

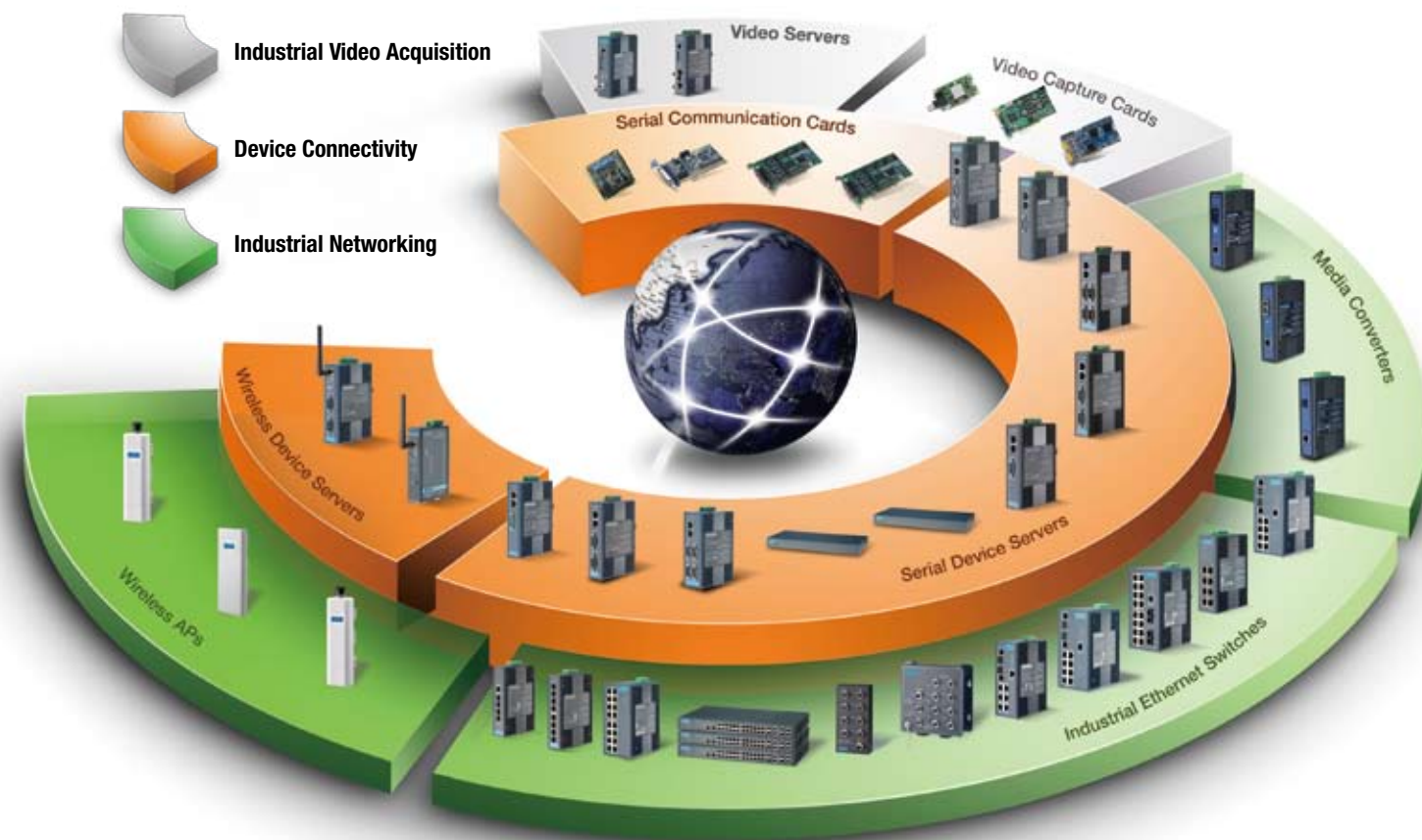


About Industrial Communication

Providing Interconnected Solutions for Advantech's Mission of "Enabling an Intelligent Planet"

Advantech Industrial Communication (ICOM)

Advantech's Industrial Communication (ICOM) offers a comprehensive line of industrial communication solutions to meet the needs for mission critical applications. These products include: Industrial Ethernet Switches, Wireless Access Points, Media Converters, Serial Device Servers, Modbus Gateways, Serial Communication Cards, Video Servers, and Video Capture Cards. These products securely transmit critical and sensitive information, remotely monitor and control networked devices, and emphasize high communication capabilities for industrial applications, including railway, intelligent transportation, renewable energy, power automation, environmental & facility management, and Machine Automation. ICOM's goal is to provide interconnected solutions - Industrial Networking, Device Connectivity, and Industrial Video Acquisition to fulfill Advantech's mission of "Enabling an Intelligent Planet".



ICOM Products & Solutions

Industrial Networking

Industrial Ethernet Switches

Advantech provides Ethernet switches and media converters with a variety of features, from Fast Ethernet to Gigabit, from copper to fiber optic, and Power over Ethernet. Advantech's EKI-7000 series Managed Ethernet switches incorporate X-Ring technology that offers the fastest redundant ring recovery time (<10ms) to secure data communication and reliability. Furthermore, the robust design, wide temperature, DIN-rail mounting, and +12~48 V_{DC} redundant power inputs make EKI-2000/7000 series suitable for rugged industrial applications.

Industrial Wireless

Advantech industrial wireless solutions cover WLAN (wireless local area network) to cellular, which offer WLAN IEEE 802.11a/n & b/g/n Access Point, serial-to-WLAN, and serial-to-cellular (GPRS/GSM, 3G UMTS/HSDPA) device server. Advantech's industrial wireless solutions offer superior data transmission throughout and connectivity. Advantech facilitates real-time access to people, applications, and network resources anywhere anytime.

Device Connectivity

Serial Device Servers

Advantech's Device Servers are easy to install and configure, support wired and wireless networking and provide various operation modes to satisfy rigorous industrial automation needs. EKI-1000 Serial Device Servers enable RS-232/422/485 serial devices to be dual-connected to Ethernet switches for unrivaled reliability. These Serial Device Servers provide various redundant configuration types and multi-access configurations for remotely controlling and monitoring serial devices via Ethernet. Furthermore, they fulfill various needs through rich operation modes, such as COM port redirection, and TCP & UDP server/client.

Serial Communication Cards

Advantech's Multiport Serial Cards are designed to accommodate multiple high performance peripherals for field devices that use the RS-232/422/485 serial communication protocol. Each card requires only one PCI or ISA slot to provide independent serial channels. With industrial-grade protection, Advantech multiport serial cards help to avoid system damage in harsh environments

Industrial Video Acquisition

Industrial Video Products

Advantech's Industrial Network Video products offer Video Servers and Video Capture Cards to support to serve automation control and video integration applications. The industrial grade Network Video Servers enhance management efficiency with Information onscreen. These video servers support multiple compression (H.264/MPEG4/MJPEG) and dual streaming.

Focused Vertical Markets with Industrial Grade Certification

The ability to compete in the popular industrial market necessitates availability of products certified to comply with the EN50155 for railway onboard train applications, Class I, Division 2 for oil & gas applications, and IEC61850 for substation automation, IP67 rating & Wide Temperature for harsh environments and UL508 safety for industrial control equipments. Advantech products offer these standard certified devices.



EN50155
Railway Systems



Class I, Div. 2
Oil & Gas Solutions



IEC61850
Substation Automation



中国电力四级认证
Substation Automation



IP67 Rating
Harsh Environments



Wide Temperature
Harsh Environments



UL508 Safety
Industrial Control Equipments



X-Ring Topology
Redundant Ring

Star Product Highlights

Providing Interconnected Solutions for Advantech's Mission of
“Enabling an Intelligent Planet”



Wireless Access Points and Client Bridges



EKI-6311GN
IEEE 802.11 b/g/n Wireless Access Point/Client Bridge

- Compliant with IEEE802.11b/g/n
- IP55 waterproof certification
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support
- High speed data rates (up to 150 Mbps)



EKI-6331AN
IEEE 802.11 a/n Wireless Access Point/Client Bridge

- Compliant with IEEE802.11a/n
- IP55 waterproof certification
- MIMO 2x2 11n (up to 300Mbps wireless link)
- WEP/WPA/WPA2/ IEEE 802.1 x authentication support

Industrial Ethernet Switches



EKI-6559TMI
EN50155 8-port M12 + 2-port Fiber Optic IP67 Managed Ethernet Switch with Wide Temp.

- Robust Switch with M12 and Fiber Optics connectors, IP67 rating, wide temperature, and redundant power input
- EN50155 certified for railway application requirements
- Supports Advantech X-Ring to maintain highly reliable transmission quality
- Ideal for PIS, video surveillance, in-seat video entertainment system



EKI-6528TI/EKI-6528TPI
EN50155 8-port M12 Unmanaged Switches with Wide Temp.

- 4 IEEE 802.3af compliant PoE and Ethernet combo ports (EKI-6528TPI)
- Wide-range Redundant Power Design and IP-40 protection
- EN50155 certified for railway application requirement



EKI-2548/EKI-2748 Series
Full Range of Compact Switches with CID2 and Wide Temp.

- Compact and robust design to increase space-efficiency
- EKI-2748 series with DMI monitors parameter status of SFP modules
- EKI-2548 series features a DIP switch which instantly enables X-Ring Master



EKI-4668C
24 FE + 4 Combo Port L3 Managed Ethernet Switch

- SFP socket for easy and flexible fiber extension
- Redundancy: Gigabit X-Ring (ultra high-speed recovery time < 10 ms), RSTP/ STP and port Trunking
- L3+IP routing RIP & OSPF support



EKI-4524I/EKI-4524RI
24-port Unmanaged Industrial Ethernet Switch with Wide Temp.

- 1U 19" rack mount with 2 SFP and 24 Fast Ethernet ports (EKI-4524RI)
- Supports 100~240 V_{AC}/V_{DC} power input
- Front panel LEDs simplify the monitoring and management



EKI-2725/2728/2525/2528
5/8-port Unmanaged Industrial Ethernet Switches

- Super slim IP30 metal casing provides reliable & compact management
- Advanced heat sink strong enough to operate in harsh environments
- Provides 3,000 V surge (EFT) protection & 4,000 V Ethernet ESD protection

Industrial PoE Switches



EKI-7659CPI
8+2G Port Gigabit Managed Redundant Industrial PoE Switch with Wide Temp.

- 2 Gigabit Copper/SFP combo ports, plus 8 PoE injector ports
- SFP socket for easy and flexible fiber expansion
- Redundancy: Gigabit X-Ring (ultra high-speed recovery time < 10ms), RSTP/STP (802.1w/1D)



EKI-2525P
5-port Industrial PoE Switch

- Provides 5 Fast Ethernet ports with 4 PoE ports with injector function
- Supports 10/100Mbps Auto Negotiation
- Provides broadcast storm protection

Media Converters



EKI-2541M/EKI-2541S
10/100TX to Multi-Mode/Single-Mode SC Type Fiber Optic Industrial Media Converters

- 1 x 10/100 Mbps Ethernet port with RJ45 connector
- Provides internal jumper for Link Fault Pass-through (LFP) setting
- Supports full/half duplex flow control



Serial Device Servers



EKI-1528/EKI-1526
8/16-port RS-232/422/485 Serial Device Servers

- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Supports baud rate up to 921.6 kbps, any baud rate setting
- Supports Windows utility, web-based console, Telnet console, and serial console



EKI-1521/EKI-1522/EKI-1524
1/2/4-port RS-232/422/485 Serial Device Servers

- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Supports baud rate up to 921.6 kbps, any baud rate setting
- Virtual COM, TCP Server, TCP Client, UDP, Peer to Peer, AT Command, and RFC2217 modes



EKI-1351/EKI-1352
1/2-port RS-232/422/485 to 802.11b/g WLAN Serial Device Servers

- Link any serial device to an IEEE 802.11b/g network
- Supports wireless LAN Ad-Hoc and Infrastructure modes
- Secure data access with WEP, WPA, and WPA2



iGateways



EKI-1321/EKI-1322
1/2-port RS-232/422/485 to GPRS Serial Device Servers

- Universal quad-band GSM/GPRS 850/900/1800/1900 MHz with 1 x Gigabits Ethernet port
- Dual SIM card slot for Telecom redundancy
- Extra SD slot for data buffering

Serial Communication Cards



PCI-1610/PCI-1612
4-port RS-232 or RS-422/485 Universal PCI Communication Cards

- Up to 921.6 kbps, support any baud rate setting
- 16PCI954 UARTs with 128-byte FIFOs standard
- Driver supported: 32-bit/64-bit Windows 2K/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX



PCI-1680U/PCI-1682U
2-port CAN-bus Universal PCI Communication Cards with CANopen

- Operates two separate CAN networks at the same time
- High speed transmission up to 1 Mbps
- Supports 32-bit/64-bit Windows 2K/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX

Modbus Gateways



EKI-1221D/EKI-1222D
1/2-port Modbus Gateways with Integrated Ethernet Cascading

- Built-in Ethernet switches for daisy-chain connectivity to minimize cabling efforts
- Supports Ethernet auto-bypass to prevent accidental power failure
- Provide Windows utilities and web-based console



Industrial Video Products



NVS-3510/NVS-3520
1/2-ch H.264 IP Video Servers

- H.264 / MPEG4 / MJPEG dual streaming
- Up to D1@30fps for each channel
- Supports SD/SDHC cards up to 32GB for local backup
- Supports Information On Screen function



DVP-1412E
1-ch USB MPEG-4 Video Capture Module

- 1 channel composite input with MPEG-4 hardware compression; USB 2.0 High-speed interface
- Full-motion video/audio encoding up to D1 resolution at 30/25 fps
- SDK supports Windows XP/XPe/Windows 2000 with VC++ sample codes

Railway Systems

The rapid acceptance of Ethernet-based networking in railway infrastructures is providing many subtle benefits to traveler's worldwide. Industrial Ethernet backbones offer high bandwidth to enable many IP-based application. Advantech's industrial communication solutions provide three major aspects of applications for railway systems, including train station, onboard train and train-to-ground. The train station applications cover fire alarm systems (FAS), automatic fare collections (AFC) and passenger information systems (PIS). Onboard train applications cover passenger information systems (PIS), in-seat video entertainment systems(VES), and IP Surveillance. The train-to-ground application includes wayside control.

Onboard Train Communication- Passenger Information, Video Entertainment, IP Surveillance

Advantech's EN50155 certified M12 Switch fulfills a wide range of applications in moving trains as it guarantees reliable performance under vibration and shock. For passenger information systems (PIS) this allows modules to connect with LCD and LED display boards which offer travel information, news and advertisements. For in-seat video entertainment systems (VES) this offers video monitors mounted on the back of every seat. And for IP surveillance this guarantees these devices can reliably connect with cameras for a variety of applications that provide increased safety and security.

Fire Alarm System (FAS)

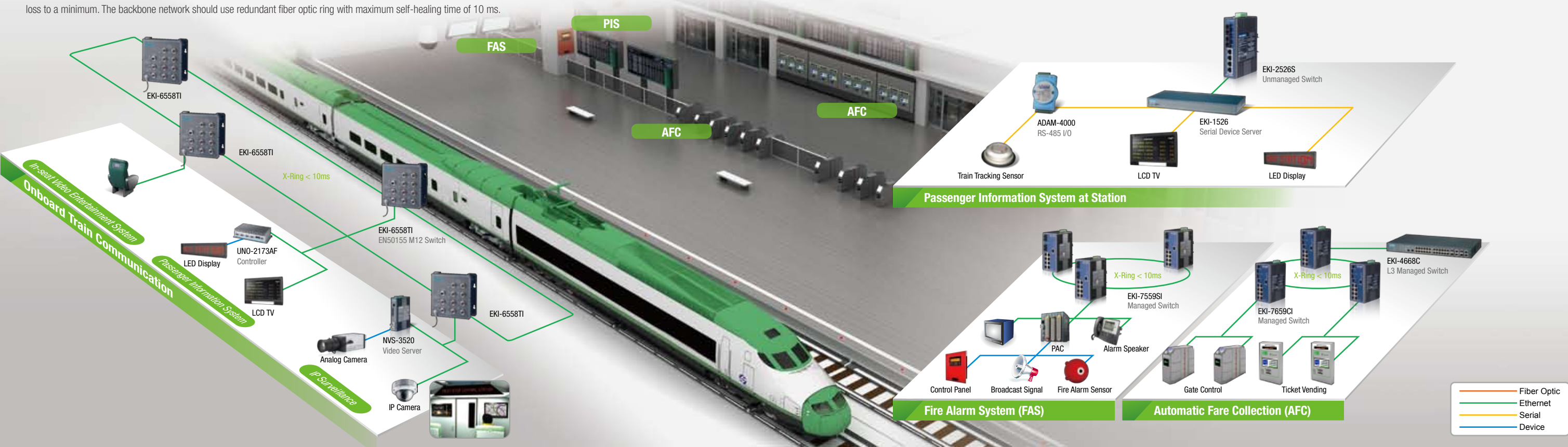
When a disaster happens, the FAS system will implement detection and send out commands to switch smoke control system and other fire equipment from normal operation mode to disaster relief operation mode; it will coordinate its sub systems, such as traffic control system, disaster relief system and safety system, to keep the loss to a minimum. The backbone network should use redundant fiber optic ring with maximum self-healing time of 10 ms.

Automatic Fare Collection (AFC)

In modern railway stations, automatic fare collection (AFC) systems includes ticket vending machines (TVM), ticket checking machines (TCM), and gate control systems which require layer 2 and 3 switch that can ensure fast, reliable, safe, redundant network.

Wayside Control

To control the trains from the wayside control cabinet, there are specific controllers, including CBI, TCC, RBC, and TSRS to ensure non-stop operation. Advantech industrial Ethernet switches form a dual fiber optic ring network, and each controller is connected simultaneously to these 2 fiber rings. With the Advantech X-Ring technology which ensures that a backup circuit is established in just 10ms to compensate for errors such as broken links. This comprehensive redundancy concept offers maximum possible security.



EKI-6528TI / EKI-6528TPI EN50155 8-port M12 Unmanaged Switch with Wide Temp.

- 4 IEEE 802.3af compliant PoE and Ethernet combo ports (EKI-6528TPI)
- Wide-range Redundant Power Design and IP-40 protection
- EN50155 certified for railway application requirement



EKI-6558TI / EKI-6559TMI EN50155 IP67 8-port M12 Managed Ethernet Switch with Wide Temp.

- Robust Switch with M12 and Fiber Optics connectors, IP67 rating, wide temperature, and redundant power input
- EN50155 certified for railway application requirements
- Supports Advantech X-Ring to maintain highly reliable transmission quality
- Ideal for PIS, IP surveillance, in-seat video entertainment system



EKI-7559SI / EKI-7659CI High Performance Managed Ethernet Switch with Wide Temp.

- Supports redundant X-Ring (recovery time < 10ms)
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Management: Web, Telnet, Serial Console, SNMP



EKI-4668C 24 FE + 4 Combo Port L3 Managed Ethernet Switch

- SFP socket for easy and flexible fiber extension
- Redundancy: Gigabit X-Ring (ultra high-speed recovery time < 10 ms), RSTP/ STP and port Trunking
- L3+IP routing RIP & OSPF support

Intelligent Transportation Systems

Intelligent Transportation Systems (ITS) aim at providing communications and technology that allow safe, convenient, comfortable, efficient, and environmentally friendly travel for all commuters. Many cities worldwide are in the midst of improving their transportation system infrastructures, and Advantech is there to provide a helping hand, offering advanced product solutions for the freeway market segment, including freeway entrance controls, traffic information systems, tunnel monitoring systems, electronic toll systems, vehicle count & classification, and IP surveillance.

Freeway Entrance Control System

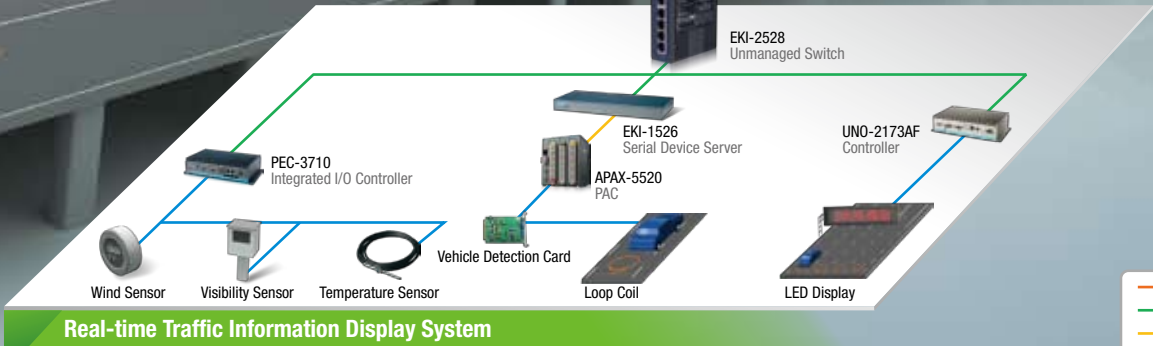
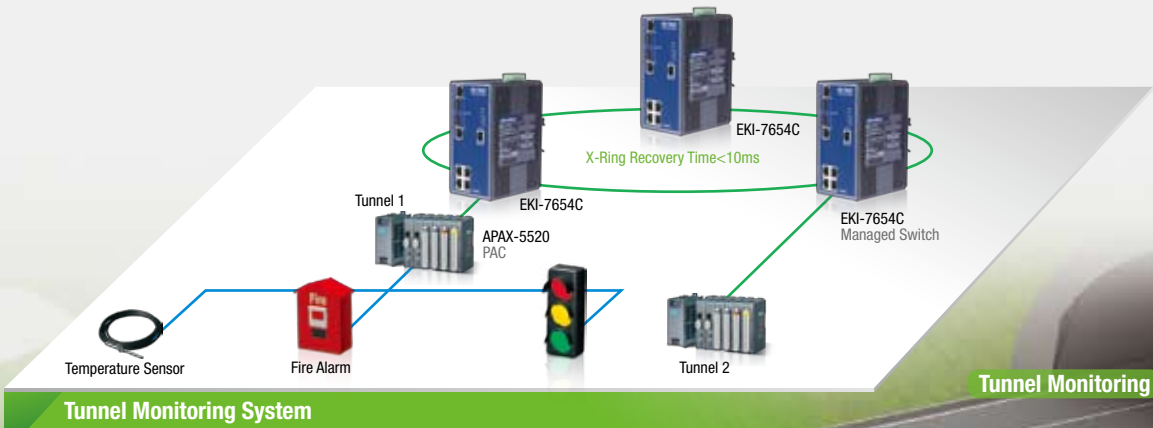
While moving cars enter the freeway, a coil loop and VD card collects the info and the PAC controller controls the traffic signal system, reducing traffic congestion in rush hours. Advantech's Industrial Ethernet Media Converters are compact and robust devices designed to convert and transmit Gigabit Ethernet or Fast Ethernet networks into Gigabit or Ethernet fiber optic networks by transparently converting digital electric Ethernet signals to optical signals.

Tunnel Monitoring System

This freeway tunnel monitoring system utilizes a distributed network control architecture to manage the system, including traffic guidance, CCTV, fire alarm, and ventilating systems while collecting several sensors, such as vehicle detector, COVI, visibility, and wind sensors. The compact and high performance Ethernet switch provides a redundant network and connection.

Real-time Traffic Information Display System

Advantech offers total solutions of Real-time Traffic Information Display System to accommodate difference ITS needs, such as Ethernet switches, serial device server, controller, data acquisition cards, and diversified communication cards. The system is able to send traffic and weather information message to LED display quickly and reliably.



EKI-2541 / EKI-2741 Fast Ethernet and Gigabit Ethernet Media Converters

- EKI-2541 series 10/100TX to Single/Multi Mode SC Type Fiber Optic Industrial Media Converter
- EKI-2741 series 10/100/1000TX to Fiber Optic Gigabit Industrial Media Converter

EKI-2000P / EKI-7000P 5/6/8-port Industrial PoE Switches with Wide Temp.

- Reliable solutions for networking, IP Cameras and wireless AP
- Guarantees reliable PoE networks with advanced management functionalities
- Only 24Vdc is required for PoE operation with 24/48 Vdc models

EKI-1528 / EKI-1526 8/16-port RS-232/422/485 Serial Device Servers

- Device can be dual-connected to Ethernet switches for unrivaled reliability
- Rich configuration methods including Window utilities, Telnet console and web browser
- Supports rich operation modes, such as COM port redirection, TCP & UDP server/client

EKI-2525 / EKI-2528 5/8-port Unmanaged Ethernet Switches

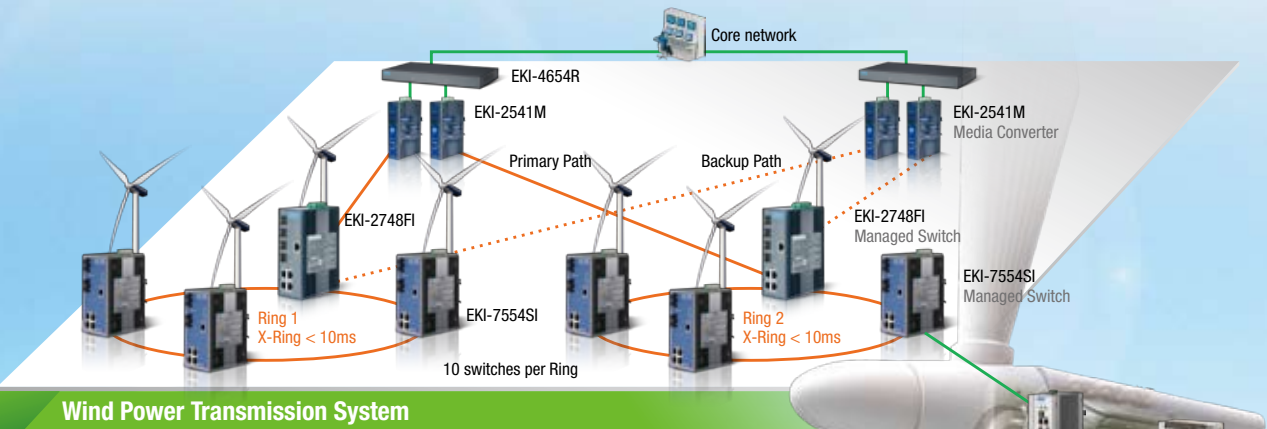
- Super slim IP30 metal casing provides reliable & compact management
- Advanced heat sink strong enough to operate in harsh environments
- Provides 3,000 V surge (EFT) protection & 4,000 V Ethernet ESD protection

Renewable Energy Solutions

Renewable energy refers to energy that is generated from resources which are all naturally replenished. To put this in perspective, about 18% of global energy consumption came from renewables in 2010. Today's renewable energy solutions are focused in 4 areas: harnessing the power of the sun, the wind, moving water and plant materials. Advantech had successful cases in solar and wind power transmission & distribution systems that installed in harsh environments with dust, vibration, heat and electrical noise.

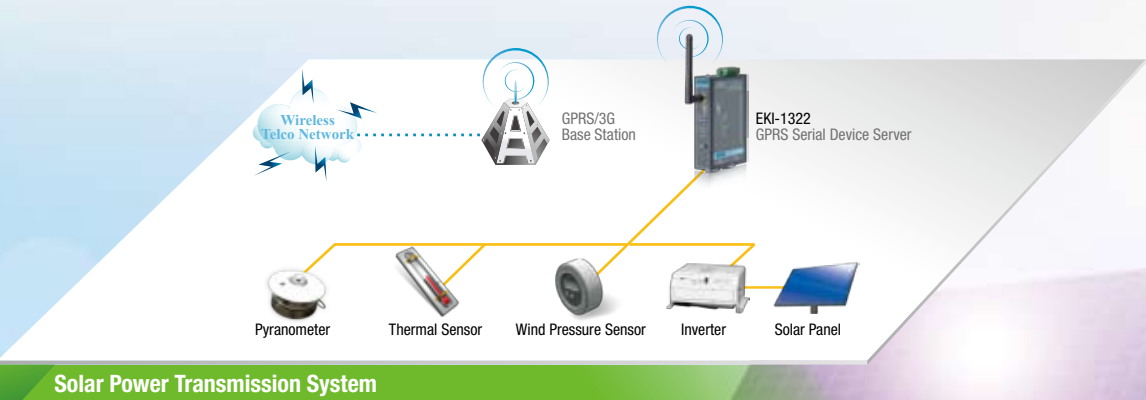
Wind Power Transmission System

Wind power plants require a great number of information management systems and remote wind turbine monitoring systems. Wind power is often used in harsh environments with high day-night temperature difference and serious dust/sand storms. The rugged electronic-magnetic environment of the motor control system requires an industrial switch with excellent anti-electromagnetic-interference capability and long MTBF. In order to enhance communication reliability, the user has to set up a redundant ring with short failover time. When any error occurs in the communication network, the switch should smoothly switch to the redundant backup line. Fiber optic managed switch with wide temperature to construct a steady and reliable X-Ring networking topology to ensure uninterrupted data transmission.



Solar Power Transmission System

To try and harness this magnificent power, many countries have been investing in solar technologies for over 30 years. Today's solar power systems include reflectors, mirrors, heat insulating absorbers, motion control technology, and data transmission system. Advantech's industrial GPRS/3G Serial Device Servers are a perfect fit for wireless data transmission system due to their great performance, reliability and ruggedness. The GPRS/3G Serial Device Servers collect data from solar panel & inverter, pyranometer, and relative sensor. This information is transmitted through cellular data network to the telecom control center. Service providers and users are able to easily access real-time information anywhere anytime. The GPRS/3G Serial Device Servers provide dual SIM slots for telecom carrier redundancy and one SD slot for storage expansion.



EKI-4654R 24+2 SFP Port Managed Redundant Industrial Ethernet Switch

- 19" Rack Mount/1U, Compliance with IEC 61850-3, IEEE1613
- 2x1000Base SFP ports, plus 24 Fast Ethernet ports
- Redundancy : Gigabit X-Ring(ultra high-speed recovery time<10ms), RSTP/STP(802.1w/1D)
- Fully integrated, dual-redundant power supply design: 2X100~240V_{AC}/100~240V_{DC}

EKI-7554SI 4+2 SC Type Fiber Optic Managed Industrial Ethernet Switch with Wide Temp.

- 2 x SC-type fiber ports, plus 4 Fast Ethernet ports
- Redundancy: X-Ring (high-speed recovery time<10ms), RSTP/STP (802.1w/1D)
- Management: Web, Telnet, Serial Console, SNMP
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit

EKI-1121L / EKI-1122L 1/2-port RISC-based Programmable Device Servers

- ARM7 32-bit 80MHz processor, 8MB Flash ROM, 16MB SDRAM
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- 1 or 2 software selectable RS-232/422/485 serial ports
- 50 bps to 921.6 kbps, any baud rate setting

EKI-1321 / EKI-1322 / EKI-1331 / EKI-1332 1/2-port RS-232/422/485 to GPRS/3G Serial Device Servers

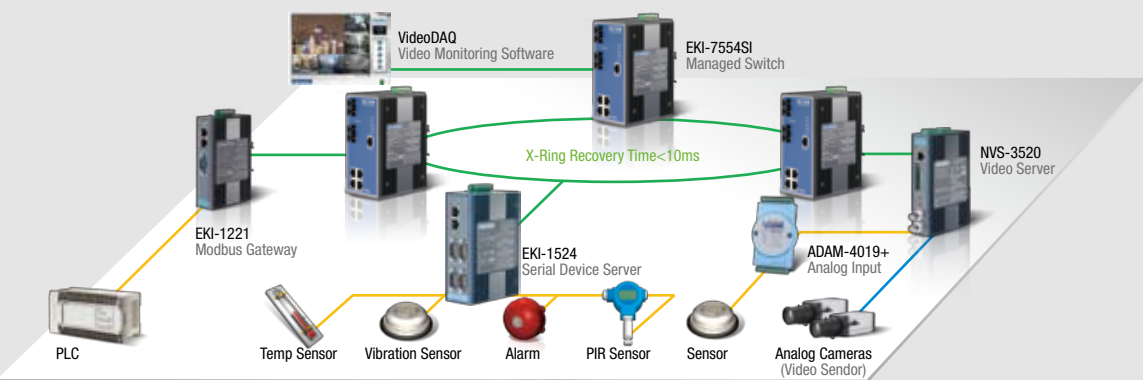
- GPRS: Universal quad-band GSM/GPRS 850/900/1800/1900 MHz with 1 x Gigabits Ethernet port
- 3G: Tri-band UMTS/HSDPA 850/1900/2100 MHz with 1 x Gigabits Ethernet port
- Dual SIM card slot for Telecom redundancy
- Extra SD slot for data buffering

Environmental and Facility Management Systems

Advantech has an excellent reputation for developing Environmental and Facility Management Systems (EMS). While Environmental Monitoring applications focus on air, water, river, dam, and electric applications. Facility Management targets factory and remote SCADA applications. Advantech's air quality monitoring systems, hazardous location monitoring systems, and waste water treatment management systems provide value-added systems and solutions, allowing users to monitor and operate processes anytime anywhere.

Hazardous Location Monitoring System

In chemical and petrochemical plants with hazardous areas, rigorous security is required to protect operators and maintain equipment. Advantech's video server connect analog camera and integrate of real-time I/O and SCADA to provide information On-Screen which monitor hazardous locations with their corresponding temperature and pressure. The video server ensures excellent video quality with multiple compression formats and dual streaming. The VideoDAQ network video monitoring software can monitor up to 16 cameras. The Ethernet switch and device server are UL Class I, Division 2 certified which is particularly designed for hazardous locations.



Hazardous Location Monitoring System

Water Treatment Management System

Proper water treatment is a very important endeavor for all industrial and public enterprises. Water treatment produces organic and mineral sludge from filtration and sedimentation. Therefore, it is important to centralize the measurement of water consumption, collect all the information on the status of the water, and remotely control the water flow level in each node (branch). Advantech offers complete water and waste water treatment monitoring and control systems for treating water to obtain very high quality water. The Modbus Gateway with Integrated Ethernet Switch offers daisy chain connectivity so it can minimize cabling efforts. Moreover, it supports Ethernet auto-bypass to prevent accidental power failure.



Water Treatment Management System



EKI-7000 Series High Performance Managed Ethernet Switches

- 4/7/8/16 port Ethernet switches with fiber optic connections
- Supports redundant X-Ring (recovery time < 10ms)
- Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
- Management: Web, Telnet, Serial Console, SNMP

NVS-3510 / NVS-3520 1/2-ch DIN-rail H.264 Video Servers

- Enhances management efficiency with information on-screen
- Ensures excellent video quality with multiple compression formats and dual streaming
- Rugged design: DC & PoE power input, wide temperature

EKI-1221D / EKI-1222D 1/2-port Modbus Gateways with Integrated Ethernet Cascading

- Built-in Ethernet switches for cascading/daisy-chain connectivity that offers flexible cabling
- Supports auto-bypass to prevent accidental power failure if one of the Modbus Gateway's unexpectedly shuts down
- Provide windows utilities and web-based configuration

EKI-1521 / EKI-1522 / EKI-1524 1/2/4 port RS-232/422/485 Serial Device Servers

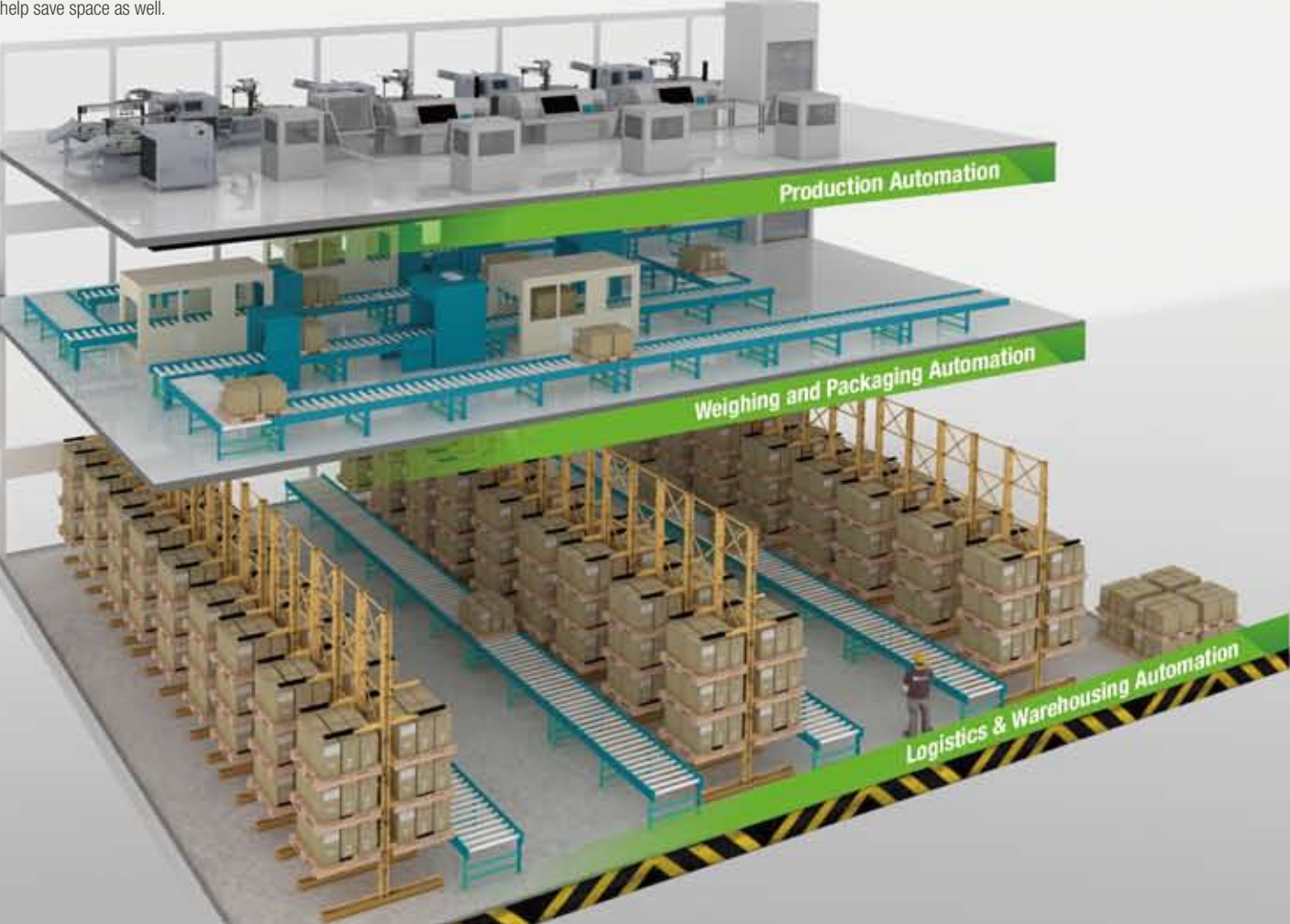
- Device can be dual-connected to Ethernet switches for unrivaled reliability
- Rich configuration methods including Window utilities, Telnet console and web browser
- Supports rich operation modes, such as COM port redirection, TCP & UDP server/client

Machine and Factory Automation Systems

Ethernet networking offers a reliable and open network infrastructure that allows the various systems used with today's machine & factory automation applications to communicate effectively, resulting in a highly synchronized operation. Advantech's Factory & Machine Automation target production automation, packaging automation, logistics & warehousing that require a compact, reliable, and robust network system. Advantech helps customers to achieve high scale volume production goals and raise their market competitiveness.

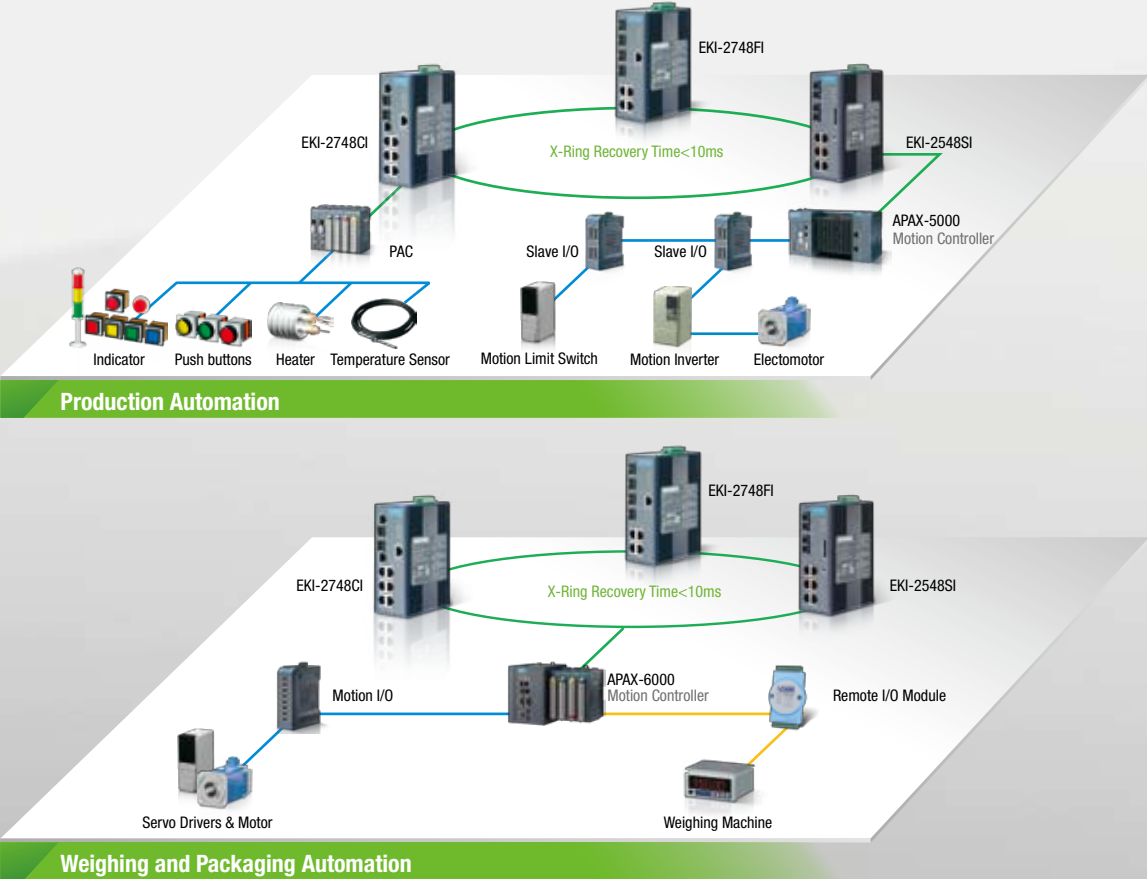
Production Automation

Delivering a high degree of durability with a low total cost of ownership is a key factor for efficient production automation. Therefore, to provide accurate and on-time information, production automation targets Ethernet switches need to be able to connect to Programmable Automation Controller (PAC) with high reliability to provide continuous transmissions. Advantech's compact Managed Switches provide a compact mechanical design able to meet a wide range of communication needs and can help save space as well.



Weighing and Packaging Automation

Automatic and highly accurate weighing & packaging machines are critical for many sectors, like pharmaceutical, medicine, food & beverage, jewelry, gold, silver, and more. After the weighing process, a conveyor system will transport the material to the packaging system. The Managed Switch was chosen to establish a redundant ring between the controllers and information layer. If one links fails, the Primary Ring Master automatically activates the backup path within 10ms.



EKI-2748CI / EKI-2748FI
6 Gx + 2 Combo Managed Ethernet Switch with Wide Temp.

- Compact and robust design to increase space-efficiency
- DMI (Digital Monitoring Interface) monitors parameter status of SFP modules
- Supports redundant X-Ring (recovery time < 10ms)



EKI-2548I / EKI-2548MI / EKI-2548SI
8Tx Managed Ethernet Switch with Wide Temp.

- Compact and robust design to increase space-efficiency
- Features a DIP switch which instantly enables X-Ring Master
- UL Class I, Division 2 Certified for use in Hazardous Locations



EKI-2725 / EKI-2728
5/8-port Gigabit Unmanaged Ethernet Switch

- Super slim IP30 metal casing provides reliable & compact management
- Advanced heat sink strong enough to operate in harsh environments
- Provides 3,000 V surge (EFT) protection & 4,000 V Ethernet ESD protection



EKI-1351 / EKI-1352
1/2-port RS-232/422/485 to 802.11b/g WLAN Serial Device Server

- Link any serial device to an IEEE 802.11 b/g network
- Supports WLAN Ad-Hoc and infrastructure modes
- Supports WEP, WPA, and WPA2 security mechanism

Industrial Ethernet Switches

Advantech provides Ethernet switches and media converters with a variety of features, from Fast Ethernet to Gigabit, from copper to fiber optic, and Power over Ethernet. Advantech's EKI-7000 series Managed Ethernet switches incorporate X-Ring technology that offers the fastest redundant ring recovery time (<10ms) to secure data communication and reliability. Furthermore, the robust design, wide temperature, DIN-rail mounting, and +12~48 V_{DC} redundant power inputs make EKI-2000/7000 series suitable for rugged industrial applications.



- EKI-7000 Series**
High Performance Managed Ethernet Switches
- 4/7/8/16-port Ethernet switches with fiber optic connections
 - Supports redundant X-Ring (recovery time < 10ms)
 - Control: VLAN/GVRP, QoS, IGMP Snooping/Query, LACP, Rate Limit
 - Management: Web, Telnet, Serial Console, SNMP



- EKI-6500 Series**
EN50155 Ethernet Switches
- Robust Switch with M12 and Fiber Optics connectors, IP67 rating, wide temperature, and redundant power input
 - EN50155 certified for railway application requirements
 - Supports X-Ring to maintain highly reliable transmission quality
 - Ideal for PIS, IP surveillance, in-seat video entertainment system



- EKI-4000 Series**
Rackmountable High Port Density Ethernet Switches
- EKI-4668C 24 FE + 4 Combo Port L3 Managed Ethernet Switch
 - EKI-4524I 24-port Unmanaged Ethernet Switch with Wide Temperature
 - EKI-4524RI 24+2 SFP Port Unmanaged Industrial Ethernet Switch with Wide Temperature
 - EKI-4654R 24+2 SFP Port Managed Redundant Industrial Ethernet Switch



- EKI-2548/EKI-2748 Series**
Compact Switches with Rugged, Gigabit and Fiber Optic Connections
- Compact and robust design to increase space-efficiency
 - EKI-2748 series with DMI (Digital Monitoring Interface) monitors parameter status of SFP modules
 - EKI-2548 series with a DIP switch which instantly enables X-Ring Master



- EKI-2000 Series**
Entry Level Ethernet Switches and Media Converters
- Fast Ethernet and Gigabit Unmanaged Ethernet Switches
 - Cost-effective, compact size with wide temperature
 - Fast Ethernet and Gigabit Ethernet Media Converters



- EKI-2000P/EKI-7000P Series**
PoE Switches
- 5/6/8-port PoE Switches
 - Supports -40 ~ 75° C operating temperature to withstand extreme environmental conditions
 - Ensures critical system operation through industrial-grade designs
 - Guarantees reliable PoE networks with advanced management functionality
 - Only 24V_{DC} is required for PoE operation with 24/48 V_{DC} models

X-Ring Pro Introduction & Applications

X-Ring Pro is the next generation of Advantech's X-Ring protocol, which supports an advanced ring topology and faster fail-over time

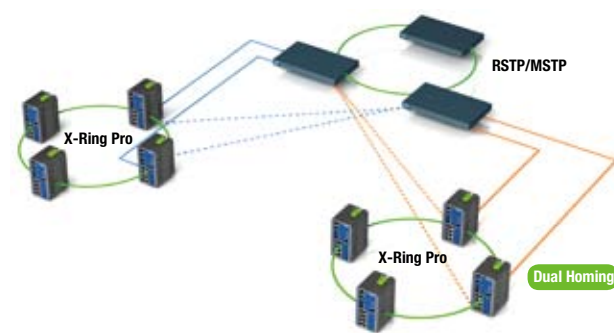
- Up to 250pcs Ethernet switches in a ring
- More advanced topologies (Advanced Dual Homing, Multi-Couple Rings, Multiple Rings Aggregation)
- 10ms fail-over time for a 250-units ring
- Backward compatible with X-Ring



New Advanced Topologies

Advanced Dual Homing

EKI managed switches support Dual Homing for connecting with another network which runs RSTP (Rapid Spanning Tree Protocol) or MSTP (Multiple Spanning Tree Protocol). Dual Homing means an EKI switch is connected to a network with two independent connecting paths. The standby path will be actuated when the primary path fails. Thus, users can connect 2 paths to the same switches, or switches on different levels of the network architecture. This is a convenient way for the network planner to expand the network without replacing existed devices.



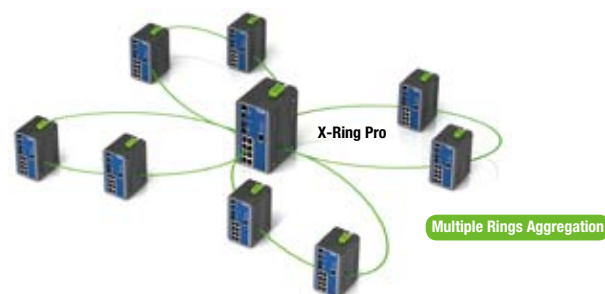
Multi-Couple Rings

Multiple rings can be connected via 2 links, one is active and another one is standby one. This largely increases the ring communication redundancy.



Multiple Rings Aggregation

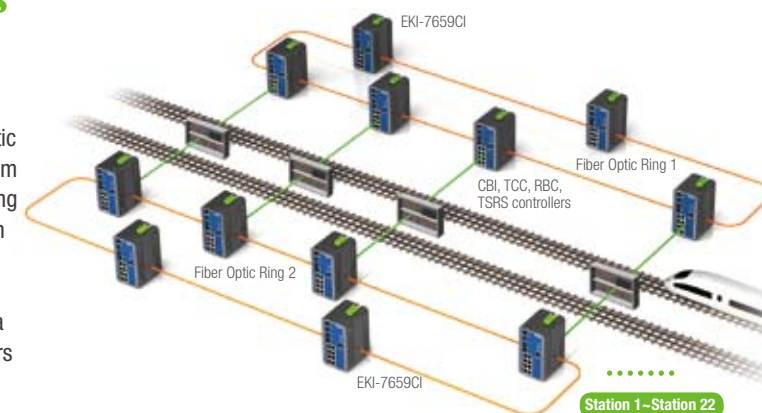
Multiple rings can be aggregated by one central switch. This provides centralized management and saves costs.



Advantech X-Ring Successful Cases

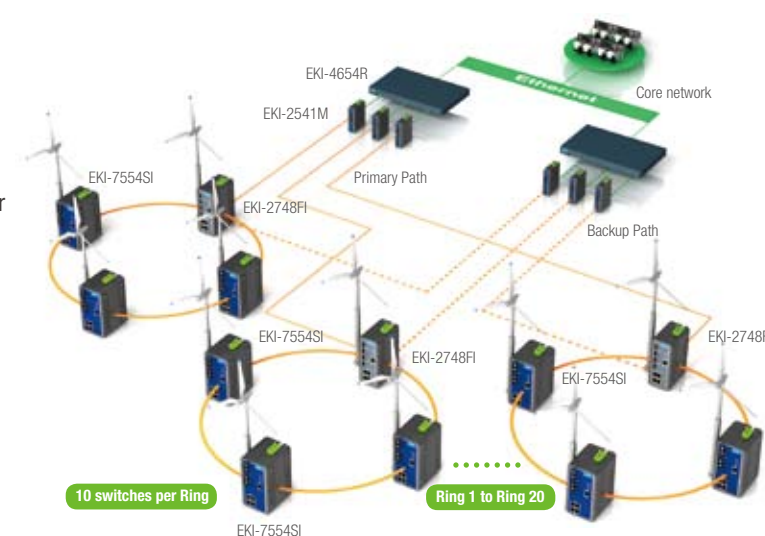
Railway Wayside Control

A China High Speed Rail (HSR) operator built a 308.1 Km fiber optic network along the wayside of 22 stations. To control the trains from the wayside control cabinet, there are specific controllers, including CBI, TCC, RBC, and TSRS to ensure non-stop operation. Advantech industrial Ethernet switches form a dual fiber optic ring network, and each controller is connected simultaneously to these 2 fiber rings. With the Advantech X-Ring technology which ensures that a backup circuit is established in just 10ms to compensate for errors such as broken links. This comprehensive redundancy concept offers maximum possible security.



Wind Power

Wind power plants require a great number of information management systems and remote wind turbine monitoring systems. Wind power is often used in harsh environments with high day-night temperature difference and serious dust/sand storms. The rugged electronic-magnetic environment of the motor control system requires an industrial switch with excellent anti-electromagnetic-interference capability. In order to enhance communication reliability, the operator has to set up a redundant ring with short failover time. When any error occurs in the communication network, the switch should smoothly switch to the redundant backup line. Fiber optic managed switch with wide temperature to construct a steady and reliable X-Ring networking topology to ensure uninterrupted data transmission.



Industrial Wireless

Advantech industrial wireless solutions cover WLAN (wireless local area network) to cellular, which offer WLAN IEEE 802.11a/n & b/g/n Access Point, serial-to-WLAN, and serial-to-cellular (GPRS/GSM, 3G UMTS/HSDPA) device server. Advantech's industrial wireless solutions offer superior data transmission throughput and connectivity. Advantech facilitates real-time access to people, applications, and network resources anywhere anytime.

Wireless AP/Client Bridge



- EKI-6331AN/EKI-6311GN**
IEEE 802.11n Wireless Access Points/Client Bridges
- EKI-6331AN 802.11a/n with MIMO 2x2 11n (up to 300Mbps wireless link)
 - EKI-6311GN 802.11b/g/n with high speed data rates (up to 150 Mbps)
 - IP55 waterproof certification, WEP/WPA/WPA2/IEEE 802.1 x authentication support

Wireless Device Servers



- EKI-1351/EKI-1352**
1/2-port RS-232/422/485 to 802.11b/g WLAN Serial Device Servers
- Link any serial device to an IEEE 802.11 b/g network
 - Supports WLAN Ad-Hoc and infrastructure modes
 - Supports WEP, WPA, and WPA2 security mechanism

iGateway - GPRS/3G Serial Device Servers



- EKI-1321/EKI-1322/EKI-1331/EKI-1332**
1/2-port RS-232/422/485 to GPRS/3G Serial Device Servers
- GPRS: Universal quad-band GSM/GPRS 850/900/1800/1900 MHz with 1 x Gigabits Ethernet port
 - 3G: Tri-band UMTS/HSDPA 850/1900/2100 MHz with 1 x Gigabits Ethernet port
 - Dual SIM card slot for Telecom redundancy
 - Extra SD slot for data buffering

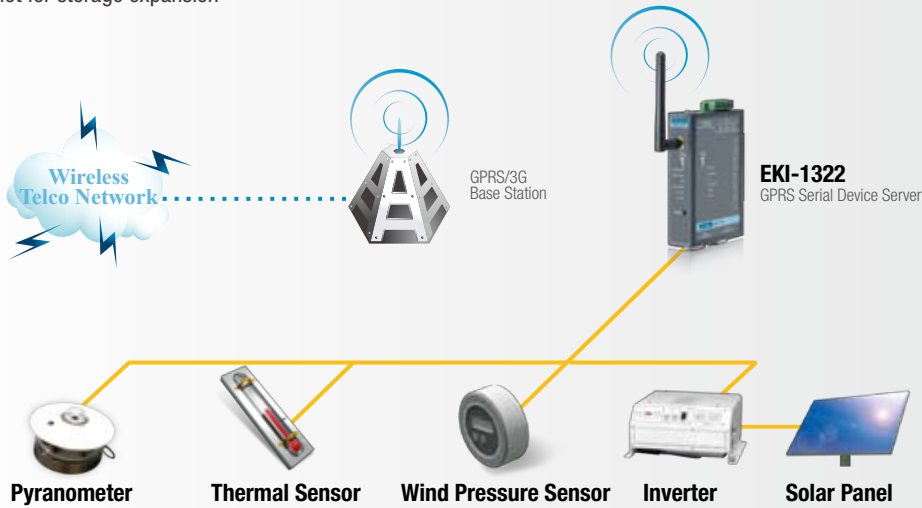
Logistics & Warehousing Automation

Logistics & warehousing application include asset management, item locators & tracking, supply chains and inventories management system, allowing warehouse to move products faster while saving time and increasing productivity. Advantech's wireless device server and wireless Access Points provide real-time data transmission for automatic logistics & warehousing applications.



iGateway Application for Solar Power

Advantech's GPRS/3G Serial Device Servers are a perfect fit for wireless data transmission systems due to their great performance, reliability and ruggedness. The GPRS/3G Serial Device Servers collect data from solar panels & inverters, pyranometers, and relative sensors. This information is transmitted through cellular data network to the telecom control center. Service providers and users are able to easily access real-time information anywhere, anytime. The GPRS/3G Serial Device Servers provide dual SIM slots for telecom carrier redundancy and one SD slot for storage expansion



Serial Device Servers & Communication Cards

Advantech's Device Servers are easy to install and configure, support wired and wireless networking and provide various operation modes to satisfy rigorous industrial automation needs. These Serial Device Servers provide various redundant configuration types and multi-access configurations for remotely controlling and monitoring serial devices via Ethernet. Furthermore, they fulfill various needs through rich operation modes, such as COM port redirection, and TCP & UDP server/client. Each multiport serial card requires only one PCI or ISA slot to provide independent serial channels. With industrial-grade protection, Advantech multiport serial cards help to avoid system damage in harsh environments.

Serial Device Servers



EKI-1521/EKI-1522/EKI-1524

Serial Device Servers

- 1/2/4-port RS-232/422/485 Serial Device Server
- Device can be dual-connected to Ethernet switches for unrivaled reliability
- Rich configuration methods including Window utilities, Telnet console and web browser



EKI-1528/EKI-1526

8/16-port RS-232/422/485 Serial Device Servers

- Connect up to 8 or 16-port serial RS-232/422/485 devices directly to TCP/IP networks
- High speed baud rates from 50bps to 921.6Kbps ensure high volume transmission needs
- Supports VCOM, TCP Server, TCP Client, UDP and RFC2217 operating modes



EKI-1351/EKI-1352

1/2-port RS-232/422/485 to 802.11b/g WLAN Serial Device Servers

- Link any serial device to an IEEE 802.11 b/g network
- Supports wireless LAN Ad-Hoc and Infrastructure modes
- Supports WEP, WPA, and WPA2 security mechanism

Modbus Gateways



EKI-1221D/EKI-1222D

1/2-port Modbus Gateways with Integrated Ethernet Cascading

- Built-in Ethernet switches for cascading/daisy-chain connectivity that offers flexible cabling
- Supports auto-bypass to prevent accidental power failure if one of the Modbus Gateways unexpectedly shuts down
- Provides windows utilities and web-based configuration

Programmable Device Servers



EKI-1121L/EKI-1122L

1/2-port RISC-based Programmable Device Servers

- RISC-based processor, low power design for high MTBF
- Rich IO interface, including dual independent 10/100Base-T Ethernet ports, one or two software selectable RS-232/422/485 serial ports
- Linux ready platform, shorten the system development and reduce developmental effort

Serial Communication Cards



PCI-1600 Series

Serial Communication Cards

- Multiple communication interfaces (RS-232/422/485, CAN, current loop, CANOpen) with different buses (PCI, PCI Express, ISA)
- Supports up to 921.6 Kbps serial speed, any baud rate setting
- Wide range of ESD, EFT, and isolation protection

Industrial Video Products

Advantech's Industrial Network Video solutions offer Network Video Servers and Video Capture Cards to support and serve automation control and video integration applications. These industrial grade Network Video Servers enhance management efficiency with Information On-Screen. These video servers support multiple compression (H.264/MPEG4/MJPEG) and dual streaming. VideoDAQ Network Video Monitoring software has a well-designed user interface which helps users to access all functions easily. This makes VideoDAQ one of the most professional digital surveillance solutions in the security market.

Video Servers



NVS-3510/NVS-3520

1/2-ch DIN-rail H.264 Video Servers

- Enhances management efficiency with information on-screen
- Ensures excellent video quality with multiple compression formats and dual streaming
- Rugged design: DC & PoE power input, wide temperature

Video Capture Cards



DVP Series

Video Capture Cards

- 1-ch USB Video Capture Card with MPEG-4 Hardware Compression
- 1/4/16-ch PCI-E Video Capture Cards with H.264
- 4-ch Mini-PCI/PCI-104 Video Capture Cards with H.264 Hardware Compression
- 4/16-ch PCI Video Capture Cards with MPEG-4 Software Compression

Industrial Network Video Monitoring Software



VideoDAQ

Industrial Network Video Monitoring Software

- Up to 16 channels live / playback video
- Triplex mode: live / record / playback
- Support D1@30fps live / playback video, two-way audio, on screen PTZ control

Video Surveillance Applications

An efficient traffic monitoring system can display real-time traffic and trigger alarms in the event of an accident. Designed for use in traffic monitoring centers, these systems provide continuous 24-hour real-time recording, and feature stopped vehicle detection as well as monitoring vehicle speeds and traffic density for improved safety.

Typical Applications

- Public Transportation Systems: Such as subway, bus, ferry or airport applications.
- Traffic Monitoring Applications: Including intersection, vehicle detection and toll station monitoring.
- Environment & Facility Monitoring: For dams, rivers, furnaces and more.



Vehicle Detection System*

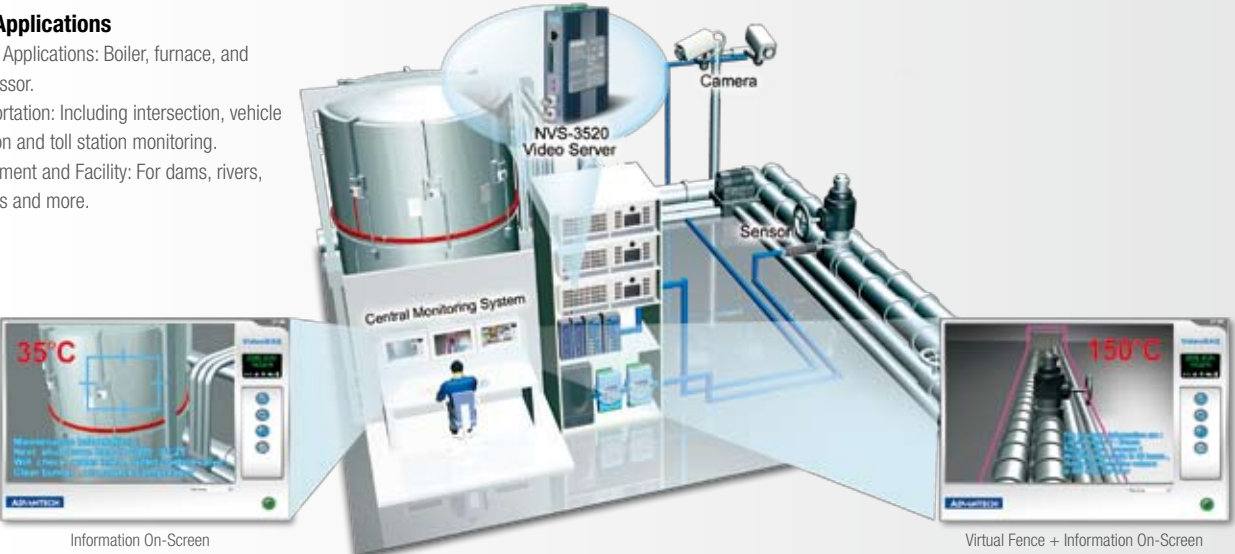
*Supported by Advantech PowerView DVR solution



Advantech's "Information On-Screen Solutions" is able to combine the video and data acquisition information from operation fields so that users can detect not only visible events, but also display the Information On-Screen to react fast and prevent accidents from occurring.

Typical Applications

- Factory Applications: Boiler, furnace, and compressor.
- Transportation: Including intersection, vehicle detection and toll station monitoring.
- Environment and Facility: For dams, rivers, furnaces and more.



Industrial Ethernet Switches

EN50155 Ethernet Switches



Model Name		EKI-6558TI/ 6559TMI	EKI-6558TPI	EKI-6528TI	EKI-6528TPI
Description		EN50155 8-port M12 + 2-port Fiber Optic IP67 Managed Industrial Ethernet Switch with Wide Temperature	EN50155 8-port PoE M12 IP67 Managed Industrial Switch with Wide Temperature	EN50155 8-port M12 Unmanaged Switch with Wide Temperature	EN50155 8-port PoE M12 Unmanaged Switch with Wide Temperature
	Ports Number	8/10	8	8	8
	10/100Base-T(X)	8/8	8	8	8
Interface	100BaseFX	0/2	-	-	-
	10/100/1000Base-T(X)	-	-	-	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	-
	PoE (10/100Mbps)	-	8	0	4
	PoE (10/100/1000Mbps)	-	-	-	-
	DI/DO	-	-	-	-
	Console	V	v	-	-
	Redundancy	V	v	-	-
	Diagnostics	V	v	-	-
	VLAN	V	v	-	-
Network Management	Configuration	V	v	-	-
	SNMP	V	v	-	-
	Security	V	v	-	-
	Traffic Control	V	v	-	-
	2 x Unregulated 12 ~ 48 V _{DC}	V	47~57V _{DC}	12~48V _{DC}	24~48V _{DC}
Power	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-	-	-
	Relay Output	V	v	-	-
Mechanism	DIN-rail Mount	-	-	v	v
	Wallmount	V	v	v	v
	Rack Mount	-	-	-	-
	IP level	IP67	IP67	IP40	IP40
Protection	ESD (Ethernet)	V	v	v	v
	Surge (EFT for power)	V	v	v	v
	Power Reverse	V	v	v	v
	-10 ~ 60° C (14 ~ 140° F)	-	-	-	-
Operating Temperature	-40 ~ 70° C (-40 ~ 158° F)	V	v	v	v
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-
	CE	V	v	v	v
Certifications	FCC	V	v	v	v
	UL/UL 60950-1	-	-	v	v
	Class I, Division 2	-	-	-	-
	UL 508	V	v	-	-

Managed Ethernet Switches



EKI-4654R	EKI-7758F	EKI-7656C/CI	EKI-7659C/CI	EKI-7657C	EKI-7654C
24+2 SFP Port Gigabit Managed Redundant Industrial Ethernet Switch	4G+4SFP Gigabit Managed Redundant Industrial Ethernet Switch	16+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch	8+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch	7+3G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch with 2 x DI/O	4+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch
26	8	18	10	10	6
24	-	16	8	7	4
-	-	-	-	-	-
-	4	2	2	3	2
2	4	2	2	3	2
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	2	-
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
-	V	V	V	V	V
V	-	-	-	-	-
V	-	-	-	-	-
V	V	V	V	V	V
-	V	V	V	V	V
-	V	V	V	V	V
V	-	-	-	-	-
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
-	V	V	V	V	V
-	-	V (EKI-7656CI)	V (EKI-7659CI)	-	-
V	-	-	-	-	-
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
V	V	V	V	V	V
-	V	V	-	V	-
-	-	-	-	-	-

- Switches
- Wireless
- Device Servers
- Communication Cards
- Video Products

Industrial Ethernet Switches

Managed Ethernet Switches



Model Name		EKI-7554SI/MI	EKI-7559SI/MI	EKI-7556MI	EKI-2748FI/CI	EKI-2548I/SI/MI
Description		4+2 SC-type Fiber Optic Managed Redundant Industrial Ethernet Switch with Wide Temperature	8+2 SC-type Fiber Optic Managed Redundant Industrial Ethernet Switch with Wide Temperature	16+2 SC Type Fiber Optic Managed Industrial Ethernet Switch with Wide Temperature	8Gx Managed Ethernet Switch with Wide Temperature	8Tx Managed Ethernet Switch with Wide Temperature
Interface	Ports Number	6	10	18	8	8
	10/100Base-T(X)	4	8	16	-	8/6/6
	100BaseFX	2	2	2	-	0/2/2
	10/100/1000Base-T(X)	-	-	-	4/6	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	4/2	-
	PoE (10/100Mbps)	-	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-	-
	DI/DO	-	-	-	-	-
	Console	V	V	V	V	-
	Redundancy	V	V	V	V	V
Network Management	Diagnostics	V	V	V	V	V
	VLAN	V	V	V	V	V
	Configuration	V	V	V	V	V
	SNMP	V	V	V	V	V
	Security	V	V	V	V	V
Power	Traffic Control	V	V	V	V	V
	2 x Unregulated 12 ~ 48 V _{DC}	V	V	V	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-	-
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-	-
	Relay Output	V	V	V	V	V
Mechanism	DIN-rail Mount	V	V	V	V	V
	Wallmount	V	V	V	V	V
	Rack Mount	-	-	-	-	-
Protection	IP30	V	V	V	V	V
	ESD (Ethernet)	V	V	V	V	V
	Surge (EFT for power)	V	V	V	V	V
	Power Reverse	V	V	V	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	-	-	-	-	-
	-40 ~ 75° C (-40 ~ 167° F)	V	V	V	V	V
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-	-
Certifications	CE	V	V	V	V	V
	FCC	V	V	V	V	V
	UL/ UL 60950-1	V	V	-	-	-
	Class I, Division 2	-	V	-	V	V
	UL 508	-	-	V	V	V

Media Converters



Model Name		EKI-2741F/SX/LX/LXI	EKI-2541M/S
Description		10/100/1000TX to Fiber Optic Gigabit Industrial Media Converters	10/100TX to Multi-mode / Single-mode SC Type Fiber Optic Industrial Media Converters
Interface	Ports Number	2	2
	10/100Base-T(X)	-	1
	100BaseFX	-	1
	10/100/1000Base-T(X)	1	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	1	-
	PoE (10/100Mbps)	-	-
	PoE (10/100/1000Mbps)	-	-
	DI/DO	-	-
	Console	-	-
	Redundancy	-	-
Network Management	Diagnostics	-	-
	VLAN	-	-
	Configuration	-	-
	SNMP	-	-
	Security	-	-
Power	Traffic Control	-	-
	2 x Unregulated 12 ~ 48 V _{DC}	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-
	Relay Output	V	V
Mechanism	DIN-rail Mount	V	V
	Wallmount	V	V
	Rack Mount	-	-
Protection	IP30	V	V
	ESD (Ethernet)	V	V
	Surge (EFT for power)	V	V
	Power Reverse	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	V	V
	-40 ~ 75° C (-40 ~ 167° F)	V (EKI-2741LXI)	V (EKI-2541MI/EKI-2541SI)
	-40 ~ 85° C (-40 ~ 185° F)	-	-
Certifications	CE	V	V
	FCC	V	V
	UL/ UL 60950-1	V	V
	Class I, Division 2	V	V
	UL 508	-	-

Industrial Ethernet Switches

Unmanaged Ethernet Switches



Model Name		EKI-4524I/RI	EKI-7526I/MI	EKI-7529MI/ST	EKI-7626C/CI	EKI-7629C/CI	EKI-2728MI
Description		24+2 SFP Port Ethernet Switch w/Wide Temp	16+2 SC Type Fiber Optic Unmanaged Industrial Ethernet Switch with Wide Temperature	8+2 Multi-mode Fiber Optic Industrial Unmanaged Ethernet Switch with Wide Temperature	16+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch	8+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch	6Gx+2 Multi-mode Unmanaged Ethernet Switch with Wide Temperature
	Ports Number	24/26	16/18	10	18	10	8
	10/100Base-T(X)	24	16/16	8	16	8	-
Interface	100BaseFX	0/2	0/2	2	-	-	-
	10/100/1000Base-T(X)	-	-	-	2	2	6
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	2	2	2
	PoE (10/100Mbps)	-	-	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-	-	-
	DI/DO	-	-	-	-	-	-
	Console	-	-	-	-	-	-
	Redundancy	-	-	-	-	-	-
	Diagnostics	-	-	-	-	-	-
	VLAN	-	-	-	-	-	-
Network Management	Configuration	-	-	-	-	-	-
	SNMP	-	-	-	-	-	-
	Security	-	-	-	-	-	-
	Traffic Control	-	-	-	-	-	-
	2 x Unregulated 12~ 48 V _{DC}	-	V	V	V	V	V
	1 x Unregulated 100 ~ 240 V _{DC}	V	-	-	-	-	-
	1 x Unregulated 100 ~ 240 V _{AC}	V	-	-	-	-	-
Power	Relay Output	V	V	V	V	V	V
	DIN-rail Mount	-	V	V	V	V	V
	Wallmount	-	V	V	V	V	V
	Rack Mount	V	-	-	-	-	-
	IP30	V	V	V	V	V	V
Protection	ESD (Ethernet)	V	V	V	V	V	V
	Surge (EFT for power)	V	V	V	V	V	V
	Power Reverse	V	V	V	V	V	V
	-10 ~ 60° C (14 ~ 140° F)	-	-	-	V	V	-
Operating Temperature	-40 ~ 75° C (-40 ~ 167° F)	V	V	V	-	-	V
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-	-	-
	CE	V	V	V	V	V	V
	FCC	V	V	V	V	V	V
	UL/ UL 60950-1	-	-	-	V	V	-
Certifications	Class I, Division 2	-	-	-	-	-	V
	UL 508	-	V	V	-	-	V



Model Name		EKI-2725/2728	EKI-2525/2528	EKI-2525M/2525M-ST	EKI-2526M/S, 2526M-ST, 2526S-ST
Description		5/8-port Gigabit Unmanaged Industrial Ethernet Switch	5/8-port Unmanaged Industrial Ethernet Switch	4+1 100FX Port Multi-mode Unmanaged Industrial Ethernet Switch	4+2 100FX Port Multi-mode/Single-mode Industrial Ethernet Switch
	Ports Number	5/8	5/8	5	6
	10/100Base-T(X)	-	5/8	4	4
Interface	100BaseFX	-	-	1	2
	10/100/1000Base-T(X)	5/8	-	-	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	-
	PoE (10/100Mbps)	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-
	DI/DO	-	-	-	-
	Console	-	-	-	-
	Redundancy	-	-	-	-
	Diagnostics	-	-	-	-
	VLAN	-	-	-	-
Network Management	Configuration	-	-	-	-
	SNMP	-	-	-	-
	Security	-	-	-	-
	Traffic Control	-	-	-	-
	2 x Unregulated 12~ 48 V _{DC}	V	V	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-	-	-
Power	Relay Output	V	V	V	V
	DIN-rail Mount	V	V	V	V
	Wallmount	V	V	V	V
	Rack Mount	-	-	-	-
	IP30	V	V	V	V
Protection	ESD (Ethernet)	V	V	V	V
	Surge (EFT for power)	V	V	V	V
	Power Reverse	V	V	V	V
	-10 ~ 60° C (14 ~ 140° F)	V	V	V	V
Operating Temperature	-40 ~ 75° C (-40 ~ 167° F)	-	V (EKI-2525/ EKI-2528)	-	-
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-
	CE	V	V	V	V
	FCC	V	V	V	V
	UL/ UL 60950-1	V	V	V	V
Certifications	Class I, Division 2	- / V	V	V	V
	UL 508	-	-	-	-

Industrial Ethernet Switches

PoE Switches



Model Name		EKI-7659CPI	EKI-2525P	EKI-2525SPI
Description		8+2G Port Gigabit Managed Redundant Industrial PoE Switch with Wide Temperature	5-port Industrial PoE Switch	5-port Industrial PoE Switch with 1x100Fx Single-Mode and Wide Temperature
Interface	Ports Number	10	5	5
	10/100Base-T(X)	-	1	-
	100BaseFX	-	-	1
	10/100/1000Base-T(X)	-	-	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	2	-	-
	PoE (10/100Mbps)	8	4	4
	M12 Connector (10/100 Mbps)	-	-	-
	DI/DO	-	-	-
	Console	V	-	-
	Redundancy	V	-	-
Network Management	Diagnostics	V	-	-
	VLAN	V	-	-
	Configuration	V	-	-
	SNMP	V	-	-
	Security	V	-	-
	Traffic Control	V	-	-
Power	2 x Unregulated 12~ 48 V _{DC}	48 V _{DC}	48 V _{DC}	48 V _{DC}
	2x Unregulated 100 ~ 240 V _{DC}	-	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-	-
	Relay Output	V	V	V
	DIN-rail Mount	V	V	V
Mechanism	Wallmount	V	V	V
	Rack Mount	-	-	-
	IP30	V	V	V
Protection	ESD (Ethernet)	V	V	V
	Surge (EFT for power)	V	V	V
	Power Reverse	V	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	-	V	-
	-40 ~ 75° C (-40 ~ 167° F)	V	-	V
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-
Certifications	CE	V	V	V
	FCC	V	V	V
	UL/ UL 60950-1	V	V	V
	Class I, Division 2	-	-	-
	UL 508	-	-	-



EKI-2526PI	EKI-2525PA	EKI-2528PAI	EKI-2701PSI
6-port Industrial PoE Switch with Wide Temperature	5-Port Industrial PoE Switch with 24/48 V _{DC} Power Input	8-port Industrial PoE Switch with 24/48 V _{DC} Power Input and Wide Temperature	Industrial PoE Splitter with Wide Temperature
6	5	8	2
2	1	4	1
-	-	-	-
-	-	-	1
-	-	-	-
4	4	4	1
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
48 V _{DC}	24/48 V _{DC}	24/48 V _{DC}	V (44~57 V _{DC})
-	-	-	-
-	-	-	-
V	V	V	-
V	V	V	V
V	V	V	V
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
-	V	-	-
V	-	V	V
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
-	-	-	-
-	-	-	-

Switches
Wireless
Device Servers
Communication Cards
Video Products

Industrial Wireless

Wireless Access Point/Client Bridges

NEW



NEW



Model Name		EKI-6311GN	EKI-6331AN
Description		IEEE 802.11 b/g/n Wireless Access Point/Client Bridge	IEEE 802.11 a/n Wireless Access Point/Client Bridge
Interface	IEEE 802.11b/g	V	-
	IEEE 802.11a	-	V
	IEEE 802.11n	V	V
	10/100Base-T(X)	V	V
	10/100/1000Base-T(X)	-	-
	RF Connector Type	N/ RSMA	RSMA
	RF Connector	1	2
RF	Transmit Output Power	802.11b: 26dBm 802.11g: 26dBm 802.11gn 26dBm	IEEE 802.11a: 23 dBm IEEE 802.11n: HT20 MCS0 25dBm (max); MCS15 22dBm (max) HT40 MCS0 25dBm (max); MCS15 21dBm (max)
	Receive Sensitivity	802.11b: -93dBm 802.11g: -89dBm 802.11n HT20: -88dBm 802.11n HT40: -84dBm	802.11a 54Mbps: -73dBm 802i11n HT20 MCS15: -65dBm 802i11n HT40 MCS15: -61dBm
Operation Mode	Access Point	V	V
	Client Bridge	V	V
	Daisy Chain Mesh	-	-
	Mobility	-	-
	Security	V	V
Power	PoE (48V) (not standard 802.3af)	-	-
	PoE (12V) (not standard 802.3af)	V	V
Mechanism	Wall mount	(Option)	(Option)
	DIN- rail mount	-	-
	Pole mount	V	V
	IP protection grade	IP55	IP55
Operating Temperature	-20 ~ 70° C (-4 ~ 158° F)	V	V
	-10 ~60° C (14 ~ 140° F)	-	-
	-35~70° C (-31~158°F)	-	-
Certification	CE	V	V
	FCC	V	V

Serial Device Servers

Serial Device Servers



Model Name		EKI-1351	EKI-1352	EKI-1521	EKI-1522	EKI-1524
No. of Ethernet Port		WLAN	WLAN	2	2	2
No. of Serial Port		1	2	1	2	4
Ethernet Interface		802.11 b/g	802.11 b/g	10/100 Mbps	10/100 Mbps	10/100 Mbps
Serial Type		RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485
Connector	Ethernet	SMA	SMA	RJ45	RJ45	RJ45
	Serial	DB9 Male	DB9 Male	DB9 Male	DB9 Male	DB9 Male
Baud Rate		50 bps ~ 921.6 kbps, any baud rate setting				
Operating Mode		Virtual COM, TCP Server, TCP Client, UDP, Peer to Peer, AT Command, and RFC2217 modes				
Driver		32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0/6.0, and Linux				
Certification Class I, Division 2		V	V	V	V	V



Model Name		EKI-1528	EKI-1526	ADAM-4571	ADAM-4571L	ADAM-4570	ADAM-4570L
No. of Ethernet Port		2	2	1	1	1	1
No. of Serial Port		8	16	1	1	2	2
Ethernet Interface		10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps
Serial Type		RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232	RS-232/422/485	RS-232
Connector	Ethernet	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
	Serial	RJ45	RJ45	DB9 Male	DB9 Male	RJ48	RJ48
Baud Rate		50 bps ~ 921.6 kbps, any baud rate setting					
Operating Mode		Virtual COM, TCP Server, TCP Client, UDP, Peer to Peer, AT Command, and RFC2217 modes		Virtual COM, TCP Server, TCP Client, UDP, Peer to Peer, and AT Command modes			
Driver		32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0/6.0, and Linux					

Serial Device Servers

Programmable Device Servers



Model Name	EKI-1121L	EKI-1122L	EKI-1126
No. of Ethernet Ports	2	2	2
No. of Serial Ports	1	2	16
Ethernet Interface	10/100 Mbps	10/100 Mbps	10/100Mbps
Serial Type	RS-232/422/485	RS-232/422/485	RS-232/422/485
CPU	ARM7	ARM7	IXP430
CPU Speed	80 MHz	80 MHz	400 MHz
Flash	8 MB	8 MB	16 MB
SDRAM	16 MB	16 MB	128 MB
USB	-	-	V
SD Slot	-	-	V
OS	uClinux 2.4	uClinux 2.4	uClinux 2.6
Certification Class I, Division 2	v	v	-

Modbus Gateways



Model Name	EKI-1221D	EKI-1222D	EKI-1221	EKI-1222	EKI-1224	ADAM-4572
No. of Ethernet Ports	2	2	2	2	2	1
No. of Serial Ports	1	2	1	2	4	1
Ethernet Interface	10/100M bps					
Serial Type	RS-232/422/485, software selectable					
Ethernet Feature	Daisy-Chain Connectivity		Dual Ethernet Redundancy			-
Configuration	Windows Configuration Utility, Web-Browser Console					Windows Utility
Operating Mode	Modbus RTU Master, Modbus RTU Slave, Modbus ASCII Master, and Modbus ASCII Slave modes					
Baud Rate	50 bps ~ 921.6 kbps					
Certification Class I, Division 2	V	V	V	V	V	-

iGateway - GPRS/3G Serial Device Servers



Model Name	EKI-1321	EKI-1322	EKI-1331	EKI-1332
Cellular Interface	GSM/GPRS	GSM/GPRS	GSM/GPRS/EDGE/UMTS/HSDPA	GSM/GPRS/EDGE/UMTS/HSDPA
Band Options	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/1900/2100 MHz 850/900/1800/1900 MHz	850/1900/2100 MHz 850/900/1800/1900 MHz
No. of Serial Ports	1	2	1	2
No. Serial Type	RS-232/422/485, software selectable			
Ethernet	10/100/1000 Mbps			
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting			
Operation Mode	Virtual COM, Reverse Virtual COM, TCP Server, TCP Client, UDP, Peer to Peer, AT Command, SMS Tunnel, and AT Command modes			
Utility	32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Web-Browser Console, Telnet Console			

Serial to USB Converters



Model Name	ADAM-4561	ADAM-4562	USB-4604B	USB-4604BM
Interface	USB 1.1	USB 1.1	USB 1.1/2.0	USB 1.1/2.0
Serial Port	1	1	4	4
Baud Rate	50 ~ 115.2 kbps	75 ~ 115.2 kbps	50 ~ 921.6 kbps	50 ~ 921.6 kbps
Serial Type	RS-232/422/485	RS-232	RS-232	RS-232/422/485
Connector	USB	Type B	Type B	Type B
	Serial	Screw Terminal	DB9	DB9
	Isolation	3,000 V _{DC} (RS-232/422/485)	2,500 V _{DC}	-
Protection	Surge	3,000 V _{DC} (RS-485)	-	2,500 V _{DC}
	Driver	Windows 2000/XP	Windows 2000/XP/2003, CE5.0	Windows 2000/XP/2003, CE5.0

Serial Communication Cards



Bus		Universal Low Profile PCI			Universal PCI				
Model Name		PCI-1602UP	PCI-1604UP	PCI-1610UP	PCI-1601	PCI-1602	PCI-1603	PCI-1610	PCI-1610C
Number of Ports		2	2	4	2	2	2	4	4
Communication Interfaces	Current Loop	-	-	-	-	-	V	-	-
	RS-232	-	V	V	-	-	V	V	V
	RS-422	V	-	-	V	V	-	-	-
	RS-485	V	-	-	V	V	-	-	-
	CAN	-	-	-	-	-	-	-	-
Driver		32-bit/64-bit Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX							
Protection	Surge	1,000 V							
	Isolation	2,500 V	-	-	-	2,500 V	2,500 V	-	2,500 V
Cable Connector Type		DB9 Male	DB9 Male	DB9 Male	-	-	-	DB9 Male	DB9 Male



Bus		Universal PCI						ISA	
Model Name		PCI-1612	PCI-1612C	PCI-1620	PCI-1622	PCI-1622C	PCI-1680	PCI-1682U	PCL-841
Number of Ports		4	4	8	8	8	2	2	2
Communication Interfaces	Current Loop	-	-	-	-	-	-	-	-
	RS-232	-	-	V	-	-	-	-	-
	RS-422	V	V	-	V	V	-	-	-
	RS-485	V	V	-	V	V	-	-	-
	CAN	-	-	-	-	-	V	V	V
Driver		32-bit/64-bit Windows 2000/XP/Vista/7, Windows CE 5.0/6.0, Linux, and QNX							
Protection	Surge	1,000 V					-	1,000 V	1,000 V
	Isolation	-	2,500 V	-	-	2,500 V	1,000 V	1,000 V	1,000 V
Cable Connector Type		DB9 Male	DB9 Male	-	-	-	-	-	-

Accessories for Serial Device Servers and Communication Cards



Bus		Accessories					
Model Name		OPT1-DB9	OPT1A	OPT1D	OPT1I	OPT1J	OPT4A
Length		-	1m	30cm	1m	30cm	30cm
Communication Interfaces	Connector Type	DB9 Female	RJ48	RJ48	RJ45	RJ45	DB37 Male
	Qty	1	1	1	1	1	1
	Connector Type	Terminal	DB9 Male	DB9 Male	DB9 Male	DB9 Male	DB9 Male
	Qty	1	1	1	1	1	4
Where Used		EKI-1000 Series, ADAM-4570 Series	ADAM-4570, ADAM-4570L	ADAM-4570, ADAM-4570L	EKI-1526, EKI-1528	EKI-1526, EKI-1528	PCI-1610, PCI-161C, PCI-1612, PCI-1612C



Bus		Accessories				
Model Name		OPT4C	OPT8C	OPT8H	OPT8I	OPT8J
Length		30cm	1m	1m	1m	1m
Communication Interfaces	Connector Type	DB37 Male	DB62 Male	DB62 Male	DB78	DB78
	Qty	1	1	1	1	1
	Connector Type	DB9 Male	DB25 Male	DB9 Male	DB25 Male	DB9 Male
	Qty	4	8	8	8	8
Where Used		PCI-1610, PCI-161C, PCI-1612, PCI-1612C	PCI-1620	PCI-1620	PCI-1622, PCI-1622C	PCI-1622, PCI-1622C

Industrial Video Servers and Capture Cards

H.264 Video Servers



Model Name	NVS-3520	NVS-3510
Description	2-ch DIN-rail H.264 IP Video Server	1-ch DIN-rail H.264 IP Video Server
Form Factor	DIN-Rail	
Video Standard	Composite for NTSC / PAL	
Video Compression	H.264 / MPEG4 / MJPEG	
Video Channel	2	1
Stream per Channel	Dual Stream	
Audio	2-way	
Audio Compression	a-law / mu-law / PCM	
Resolution	QCIF / CIF / VGA / D1	
Frame Rate (NTSC/PAL)	30 / 25 fps	
Network Interface	1 x RJ-45 wired 10/100 Base-TX	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS, RTP/RTSP	
PoE Power Input	IEEE 802.3af	
RS-485	2	
DI/DO	4xDI + 2xDO	
SD/SDHC Card	1	
Others	Information On Screen (Integrate I/O data with Video)	
Software Bundle	VideoDAQ software and SDK	
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	
Dimension (W x D x H)	106 x 43 x 152 mm	

MPEG-4 Video Capture Cards



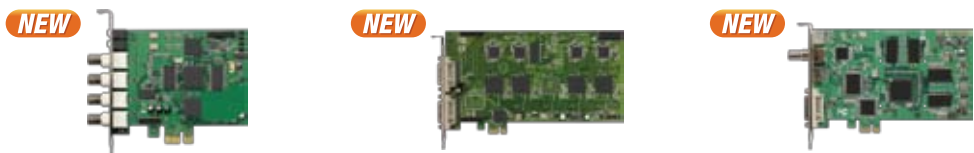
Model Name	DVP-7010BE	DVP-7020BE	DVP-1412E
Video Standard	Composite for NTSC / PAL		
Format	MPEG-4		
Compression	Software Compression		
Video Input	4	16	1
Audio Input	-	-	1
Resolution	QCIF / CIF / D1		
Recording Rate (NTSC/PAL)	30 / 25 fps(CIF)	120 / 100 fps(CIF)	30 / 25 fps(D1)
Display Rate (NTSC/PAL)	30 / 25 fps(CIF)	120 / 100 fps(CIF)	30 / 25 fps(D1)
Interface	PCI v2.2	PCI v2.2	USB 2.0 High Speed
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)		
Storage Temperature	-20 ~ 70° C (-4 ~ 158° F)		
Supported OS	Windows 2000 / Windows XP / Windows XP Embedded		
Platform Requirements	CPU: Intel Pentium 4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimensions	125.38 x 97.25 mm	125.38 x 97.25 mm	70 x 38 mm

Industrial Video Capture Cards

H.264 Video Capture Cards



Model Name	DVP-2642-AE	DVP-5642-AE	DVP-7642-AE
Video Standard	Composite for NTSC/PAL		
Format	H.264		
Compression	Hardware Compression		
Video Input	4		
Audio Input	4		
Resolution	QVGA / CIF / VGA / D1 / Full D1		
Recording Rate (NTSC/PAL)	30 / 25 fps (Full D1)		
Display Rate (NTSC/PAL)	30 / 25 fps (CIF)		
Interface	PCI-104	Mini-PCI	PCI
Operating Temp.	-10 ~ 60° C (14 ~ 140° F)		
Storage Temp.	-20 ~ 70° C (-4 ~ 158° F)		
Supported OS	Windows XP / Windows Vista / Windows 7 / Linux 2.6.14 or later		
Platform Req.	CPU: Intel Pentium4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimension	96.0 x 89.2 mm	59.6 x 50.95 mm	120.52 x 85.0 mm



Model Name	DVP-8642-AE	DVP-8662-AE	DVP-8612H-AE
Video Standard	Composite for NTSC/PAL		
Format	H.264		
Compression	Hardware Compression		
Video Input	4	16	1
Audio Input	4	16	1
Resolution	QVGA / CIF / VGA / D1 / Full D1		D1 / HD / Full HD
Recording Rate (NTSC/PAL)	30 / 25 fps (Full D1)		30 / 25 fps (Full HD)
Display Rate (NTSC/PAL)	30 / 25 fps (CIF)		30 / 25 fps (Full HD)
Interface	PCI-E		PCI-E
Operating Temp.	-10 ~ 60° C (14 ~ 140° F)		0 ~ 70° C (32 ~ 158° F)
Storage Temp.	-20 ~ 70° C (-4 ~ 158° F)		-20 ~ 70° C (-4 ~ 158° F)
Supported OS	Windows XP / Windows Vista / Windows 7 / Linux 2.6.14 or later		
Platform Req.	CPU: Intel Pentium4, 2.0GHz or above		
Demo Program	Complete demo program with VC++ sample code for reference		
DirectX	Version 9 or later		
Dimension	111.0 x 104.0 mm	190.0 x 106.65 mm	100.1 x 155.0 mm

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